OIPE JC10
DEC 06 2004
PATENT & TRADEMARK OFFICE

FIG. 1A

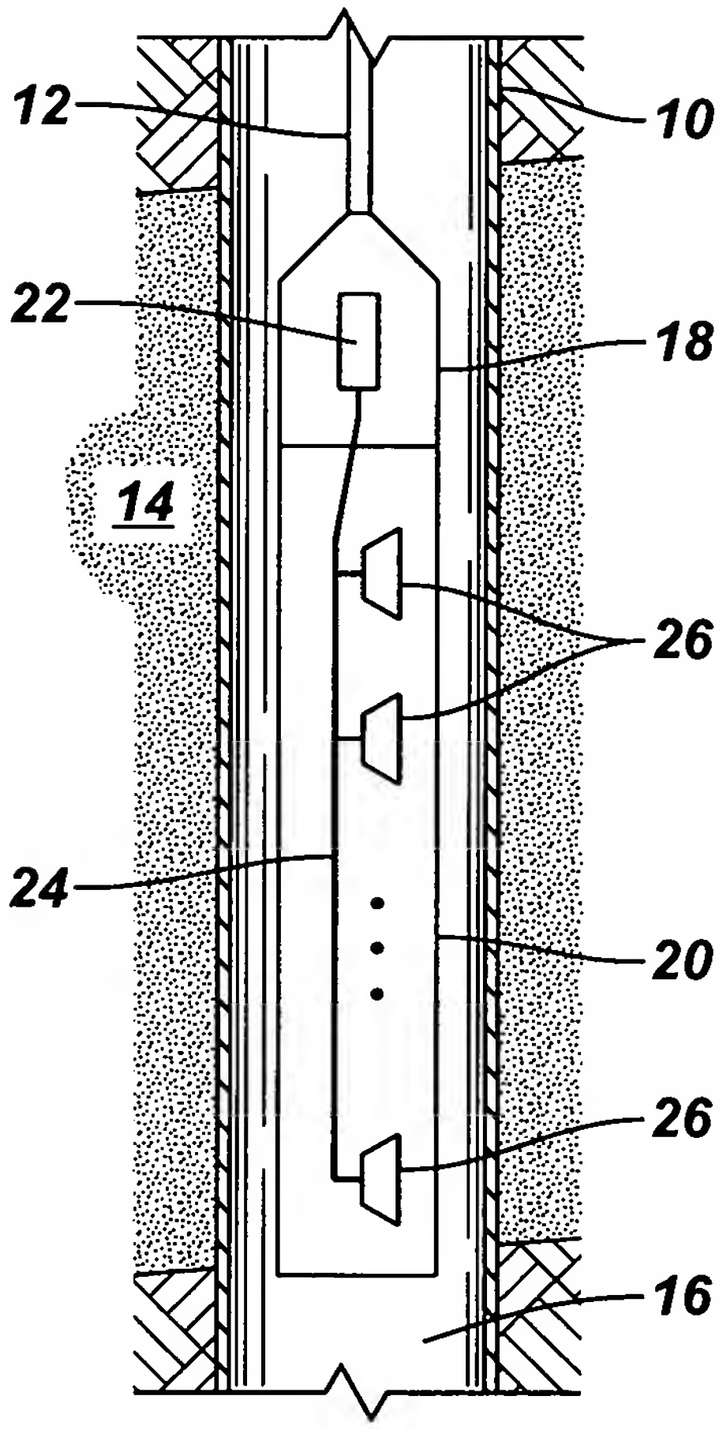



FIG. 1B

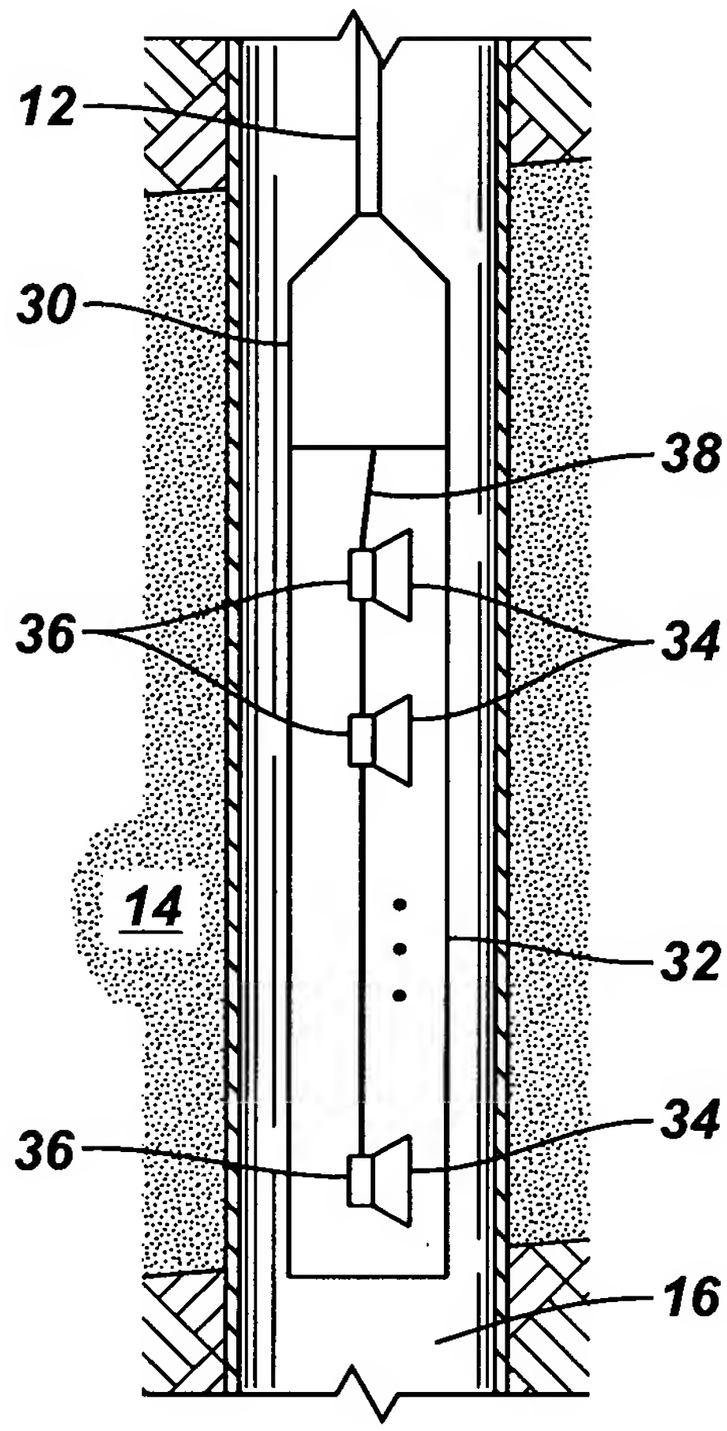



FIG. 2

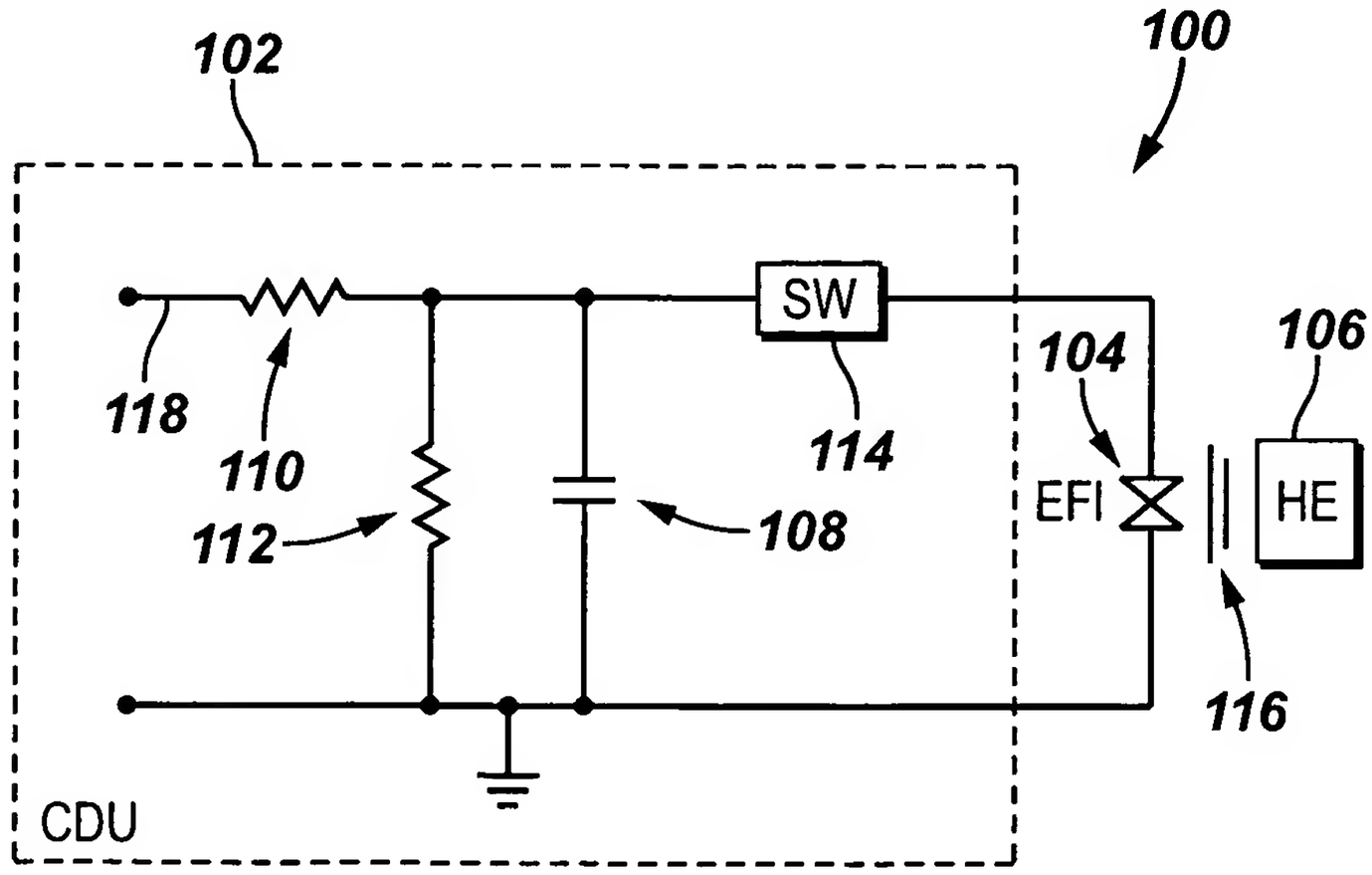


FIG. 3

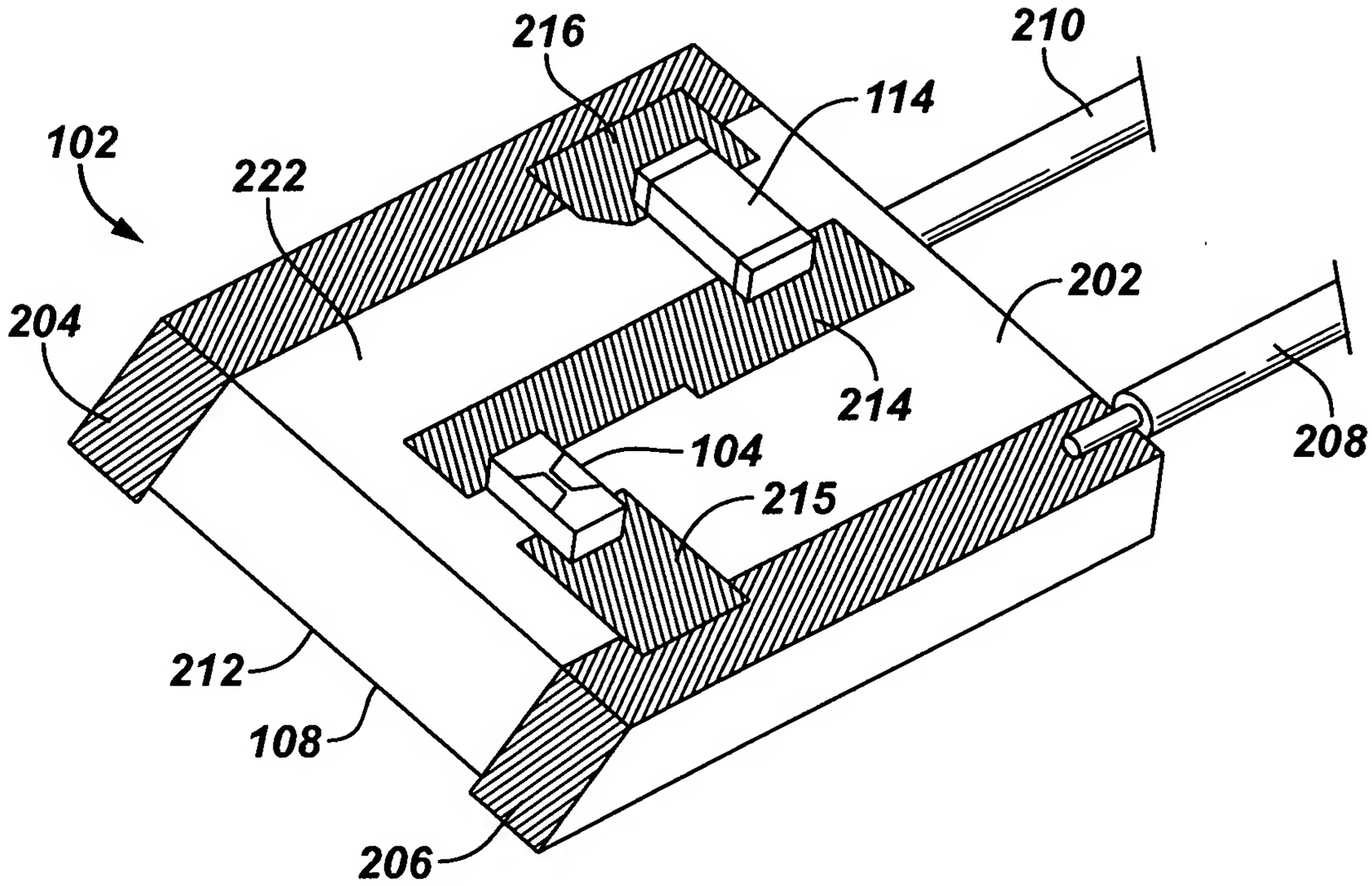

216
210
114
102
222
202
204
214
208
104
215
212
108
206

FIG. 4

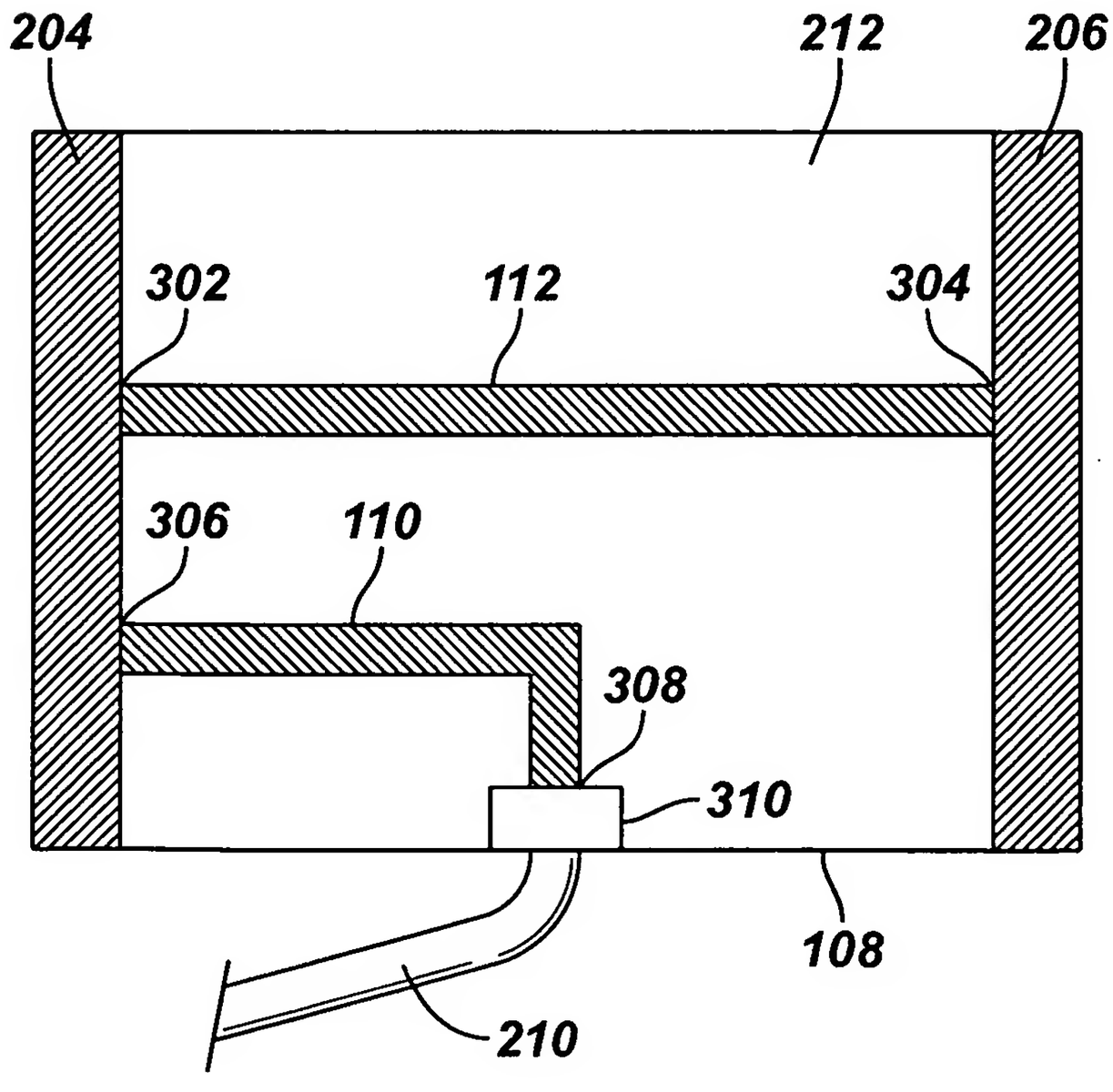

204
212
206
302
112
304
306
110
308
310
108
210

FIG. 5

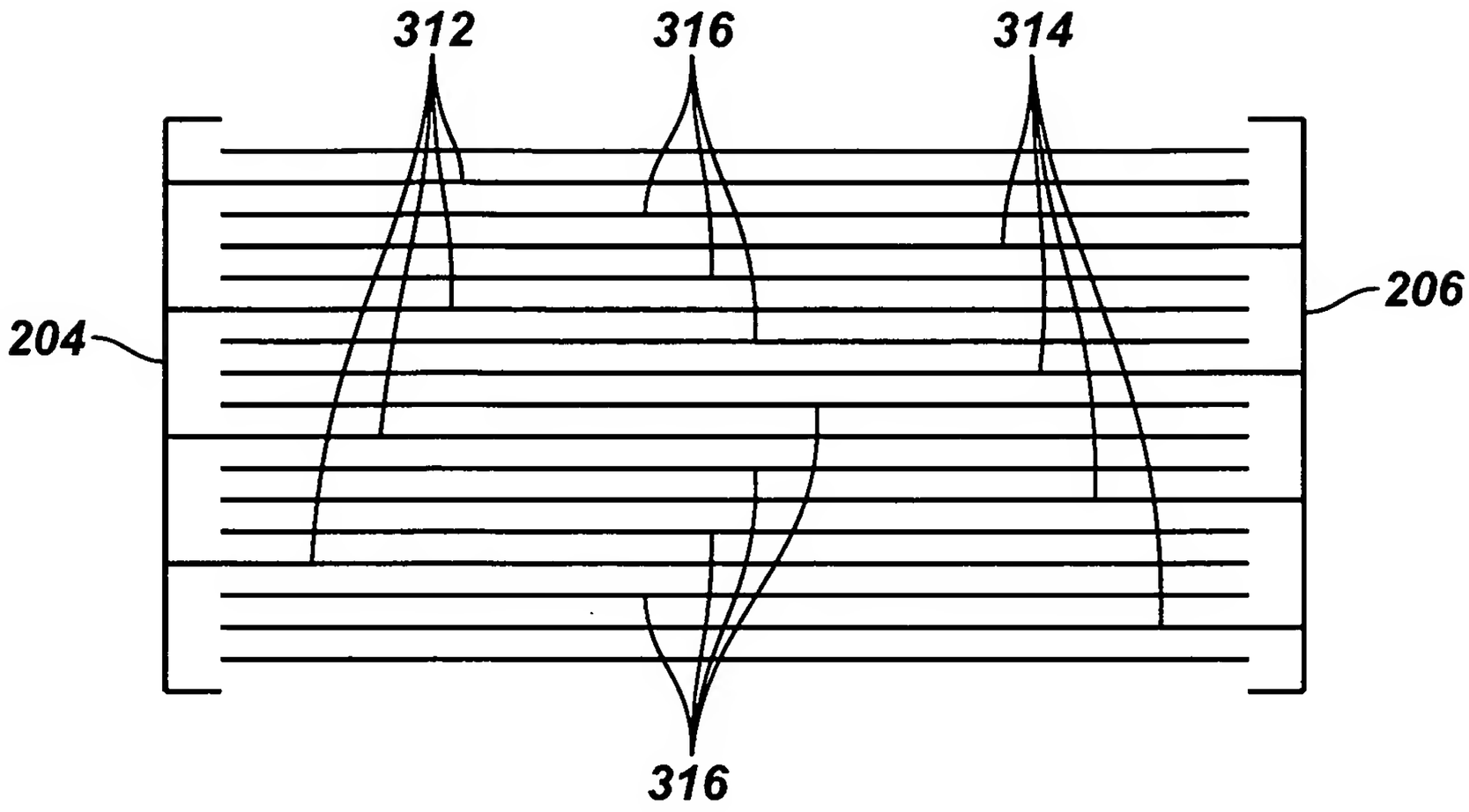



FIG. 6

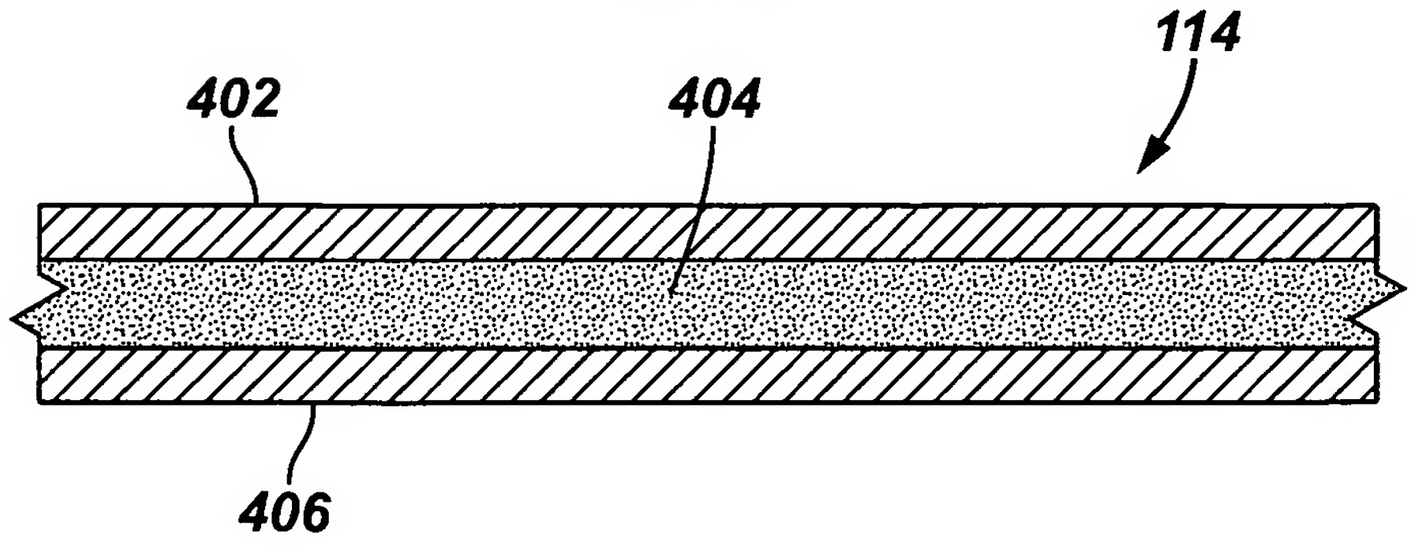


FIG. 7

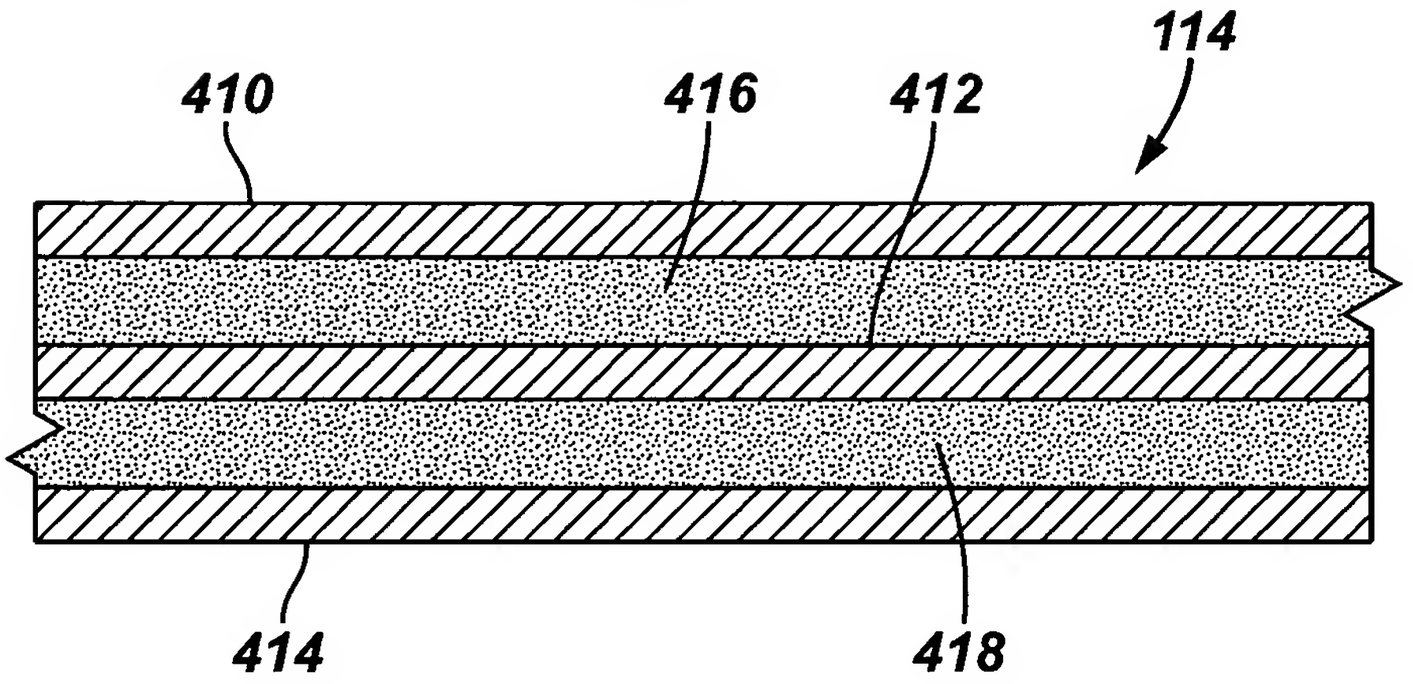



FIG. 8A

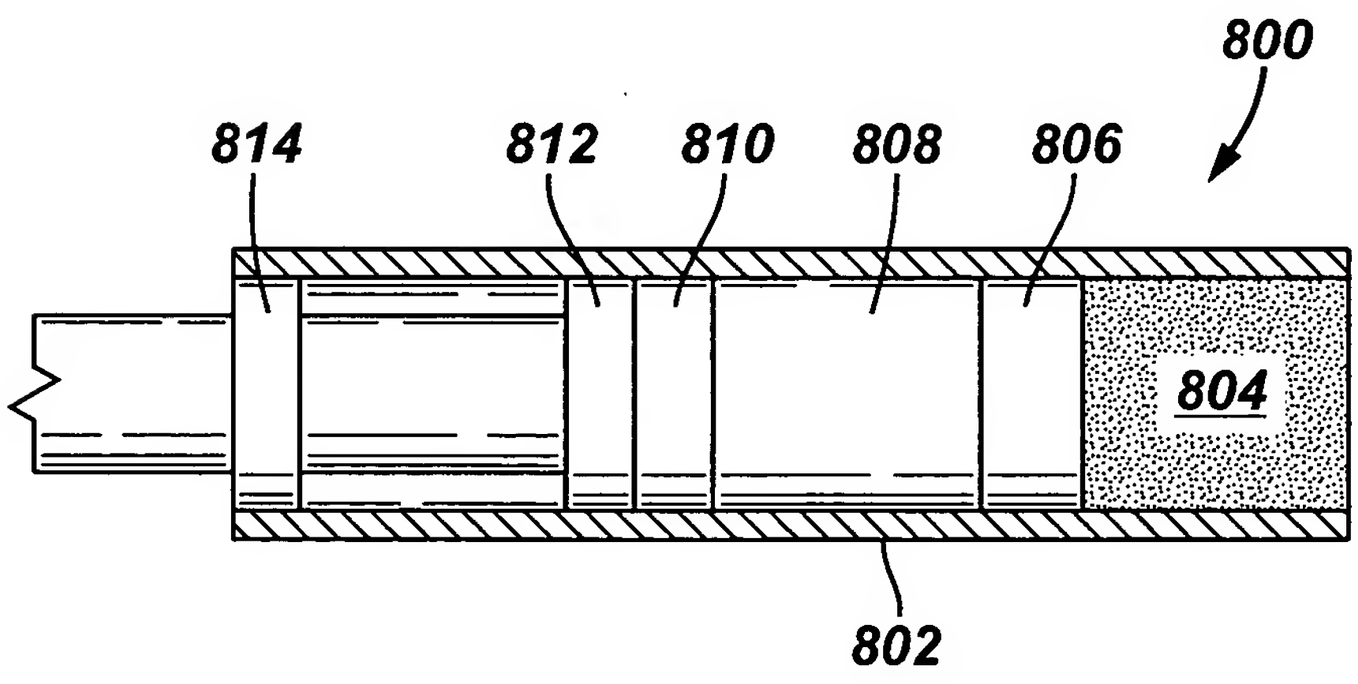


FIG. 8B

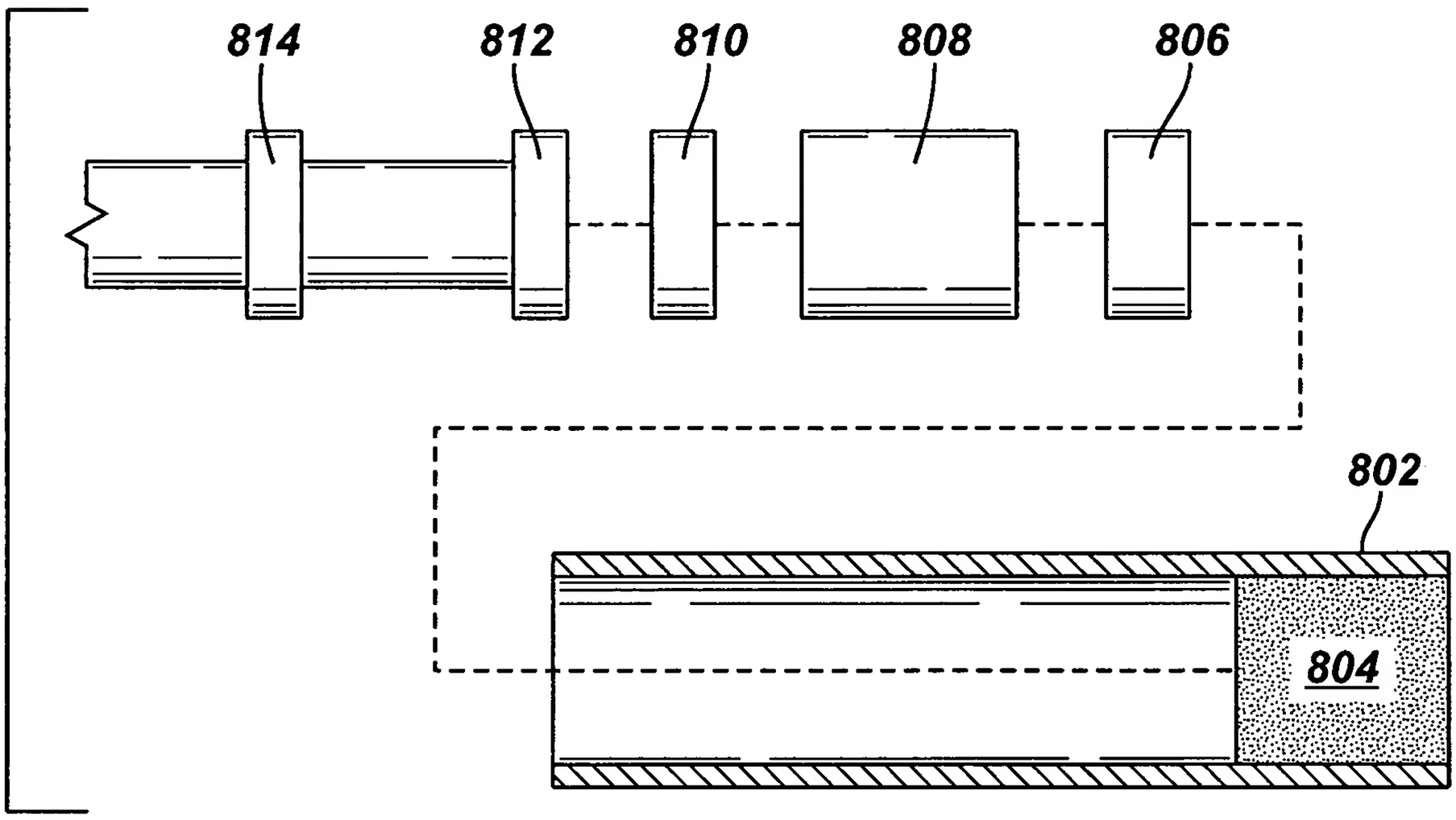



FIG. 9

SURFACE

E
D
C
B
A

| UNIT | OPERATIONAL SEQUENCE TIME → | | | | |
|---|---|---|---|---|---|
| A | FIRE | | | | |
| B | SENSE AND DISCONNECT | FIRE | | | |
| C | SLEEP | SENSE AND DISCONNECT | FIRE | | |
| D | SLEEP | SLEEP | SENSE AND DISCONNECT | FIRE | |
| E | SLEEP | SLEEP | SLEEP | SENSE AND DISCONNECT | FIRE |

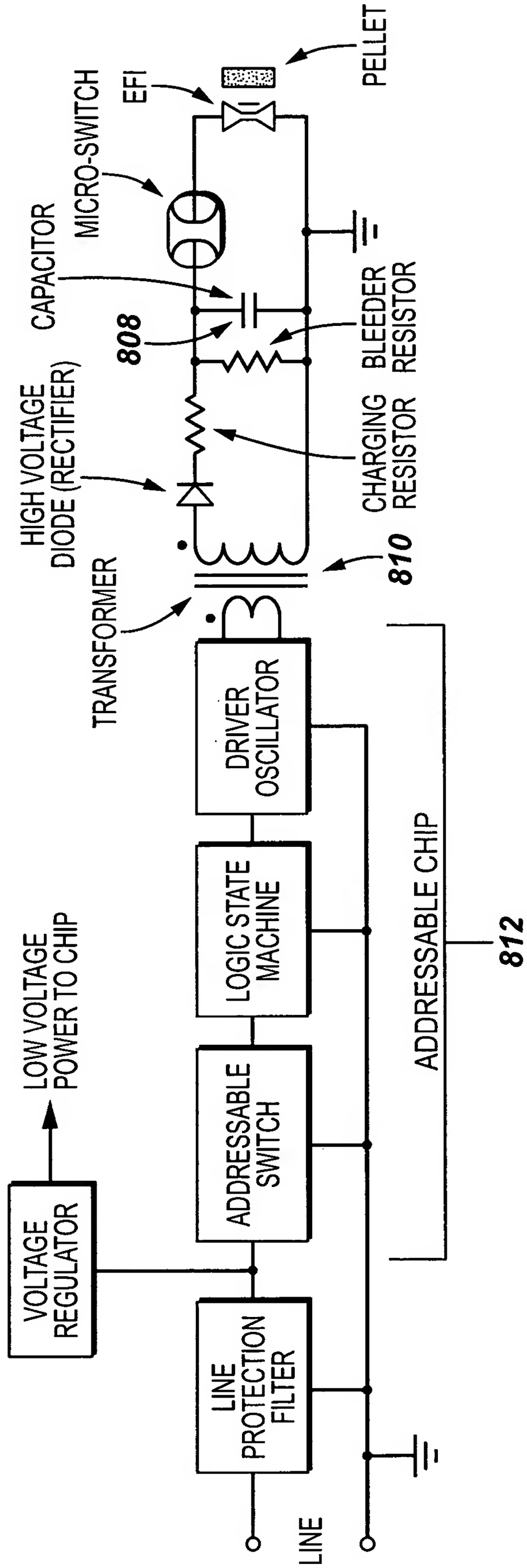
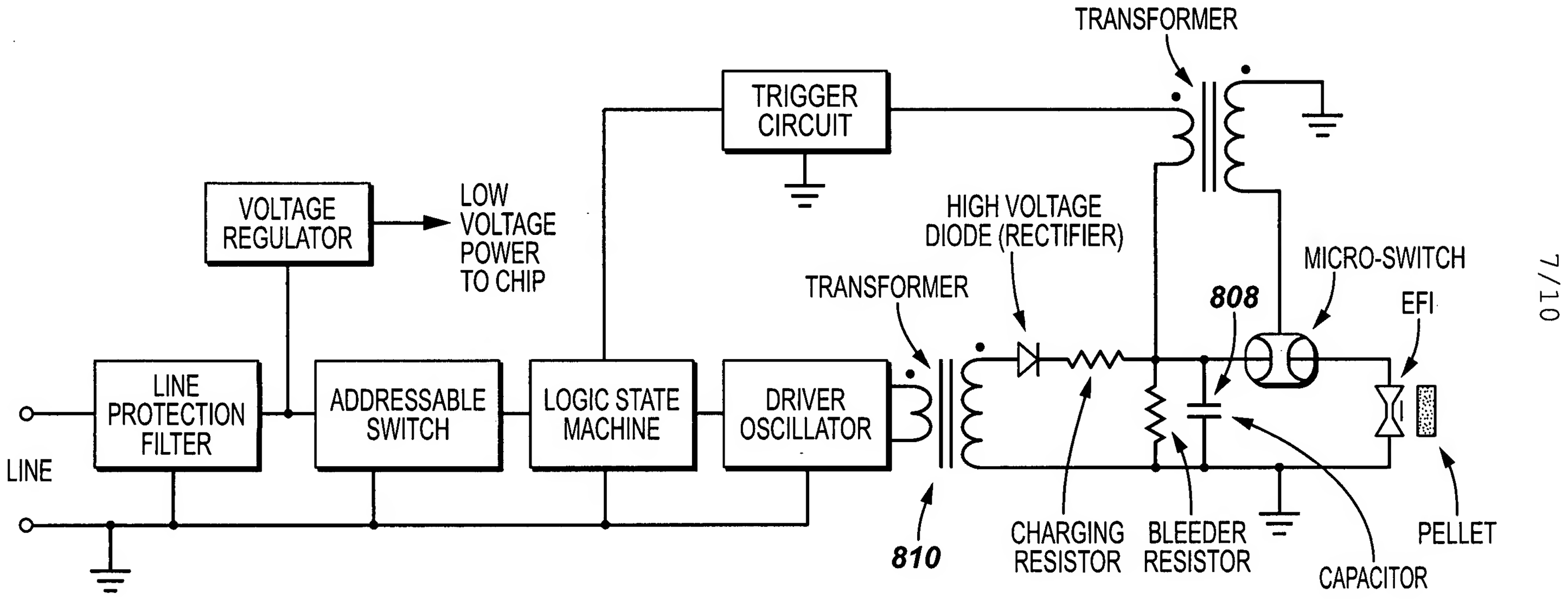

PELLET
EFI
MICRO-SWITCH
CAPACITOR
808
BLEEDER RESISTOR
HIGH VOLTAGE DIODE (RECTIFIER)
CHARGING RESISTOR
TRANSFORMER
810
DRIVER OSCILLATOR
LOGIC STATE MACHINE
ADDRESSABLE CHIP
812
LOW VOLTAGE POWER TO CHIP
ADDRESSABLE SWITCH
VOLTAGE REGULATOR
LINE PROTECTION FILTER
LINE

FIG. 10

*FIG. 11*


TRANSFORMER
TRIGGER CIRCUIT
VOLTAGE REGULATOR
LOW VOLTAGE POWER TO CHIP
HIGH VOLTAGE DIODE (RECTIFIER)
MICRO-SWITCH
TRANSFORMER
808
EFI
LINE PROTECTION FILTER
ADDRESSABLE SWITCH
LOGIC STATE MACHINE
DRIVER OSCILLATOR
LINE
810
CHARGING RESISTOR
BLEEDER RESISTOR
CAPACITOR
PELLET

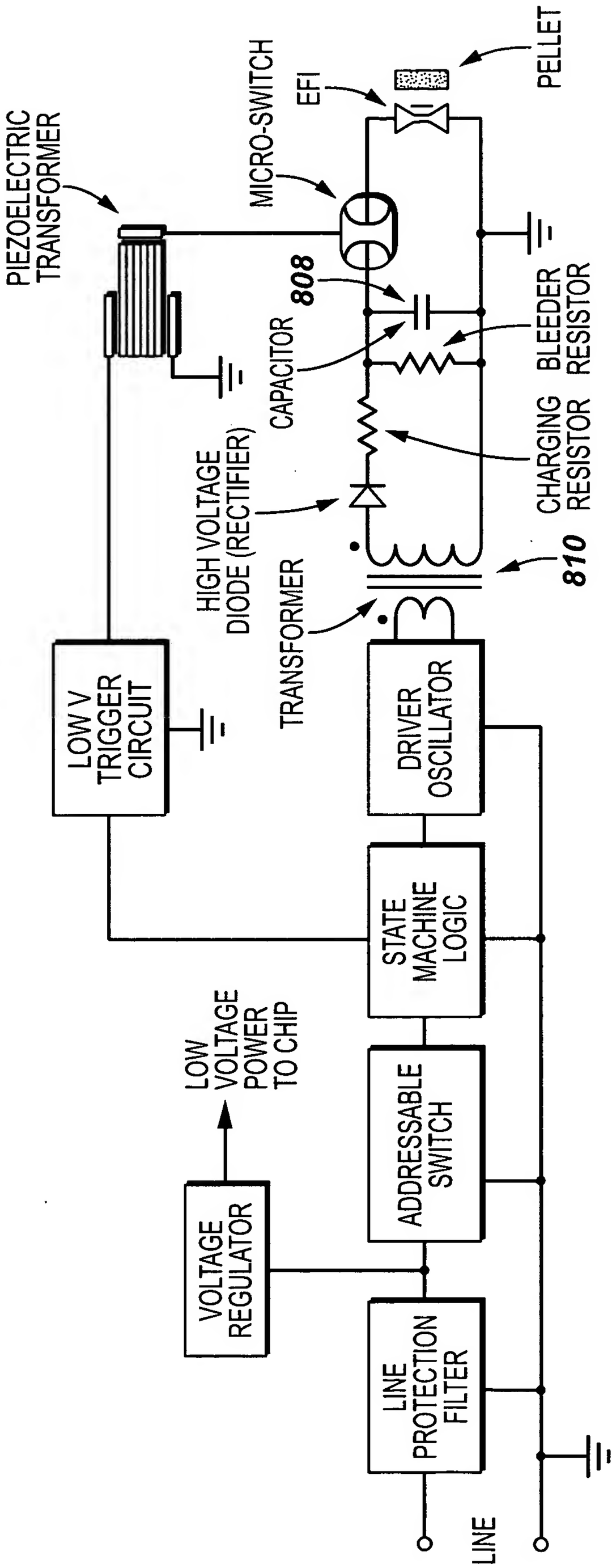

PIEZOELECTRIC TRANSFORMER
MICRO-SWITCH
EFI
PELLET
808
CAPACITOR
BLEEDER RESISTOR
HIGH VOLTAGE DIODE (RECTIFIER)
CHARGING RESISTOR
TRANSFORMER
810
LOW V TRIGGER CIRCUIT
DRIVER OSCILLATOR
STATE MACHINE LOGIC
LOW VOLTAGE POWER TO CHIP
ADDRESSABLE SWITCH
VOLTAGE REGULATOR
LINE PROTECTION FILTER
LINE

FIG. 12

FIG. 13A

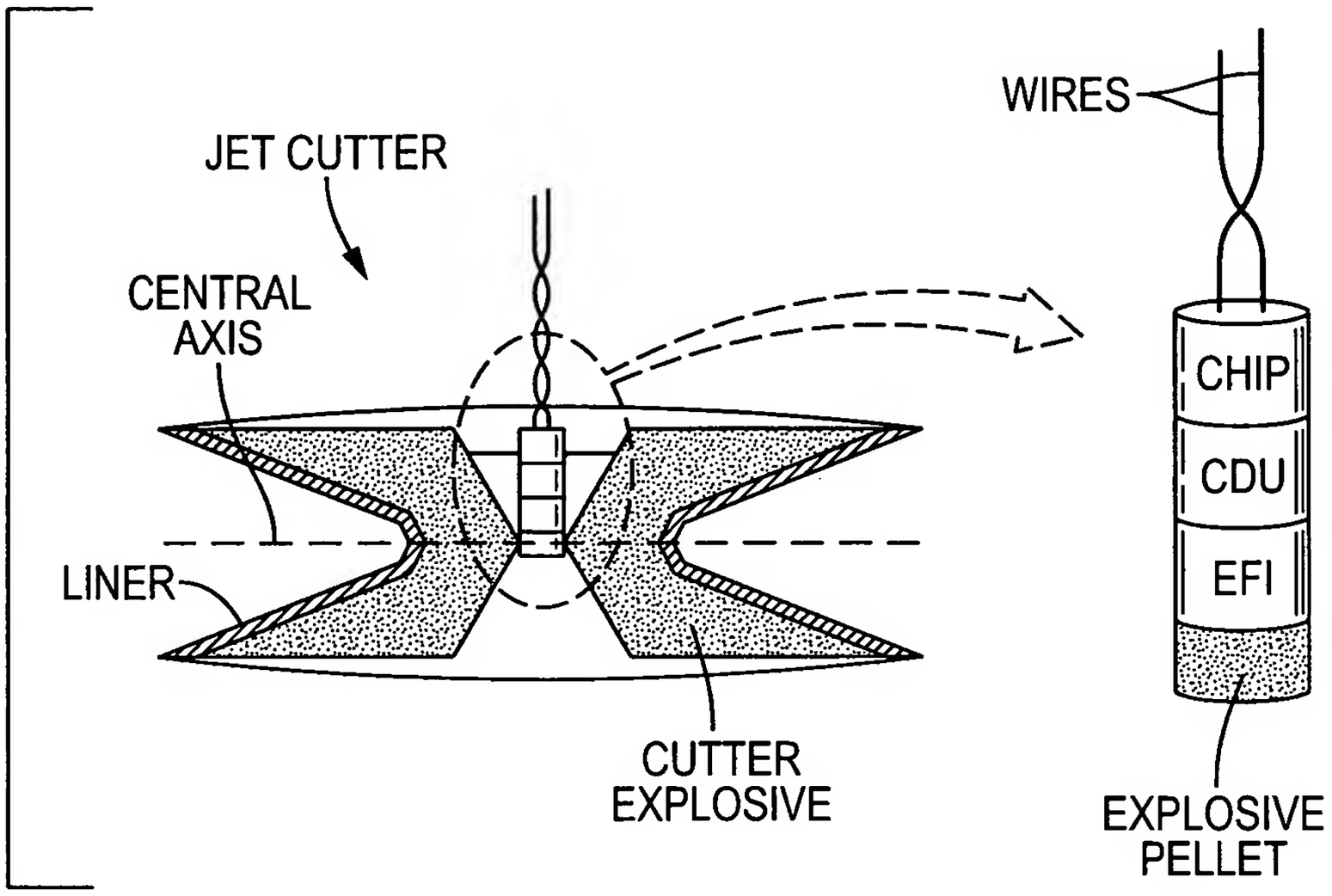



FIG. 13B

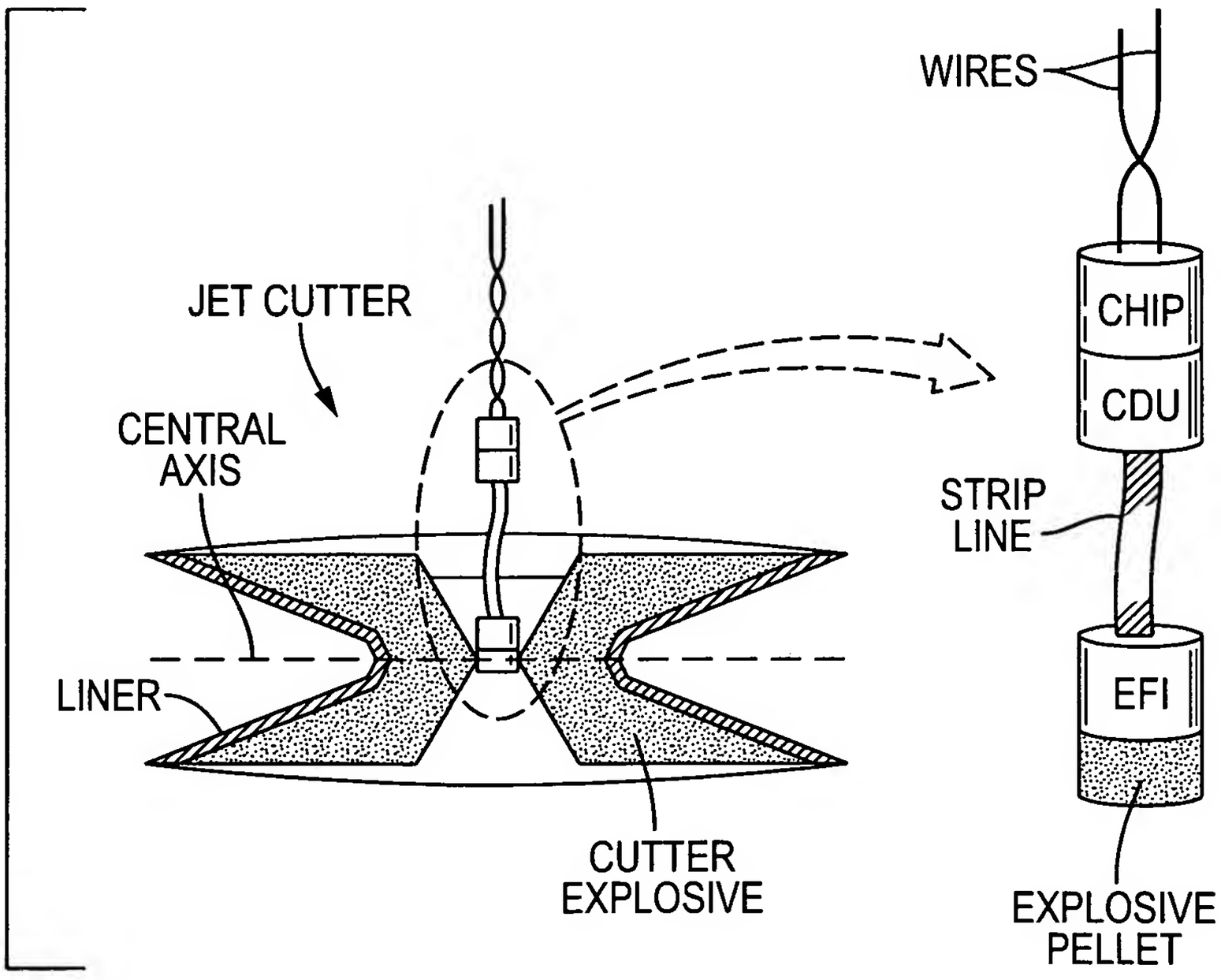


FIG. 14A

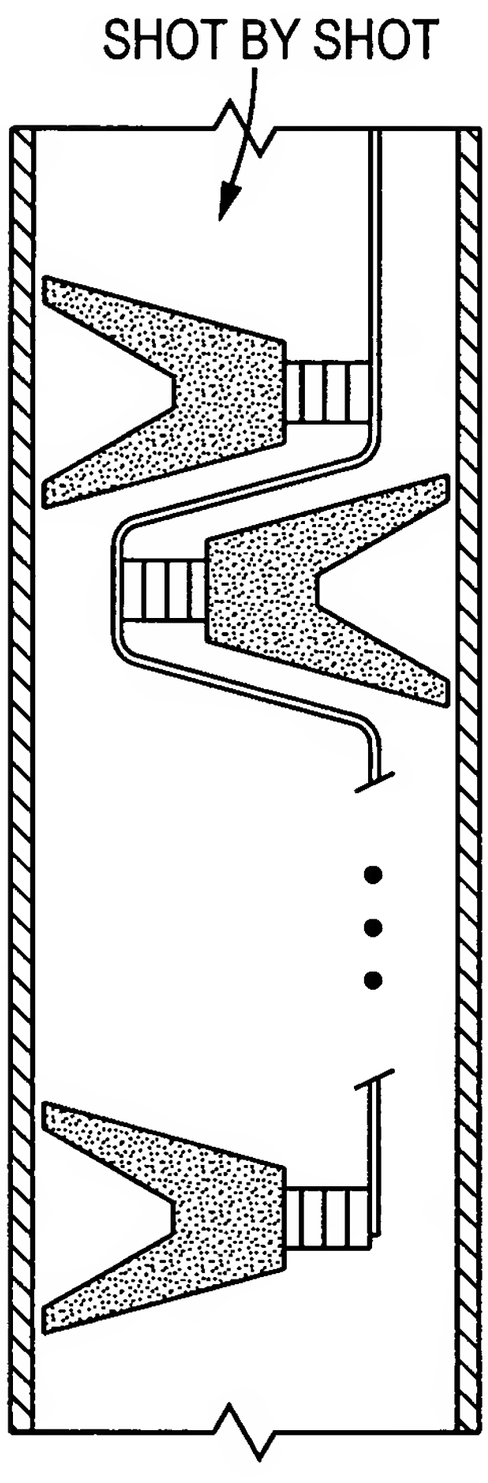
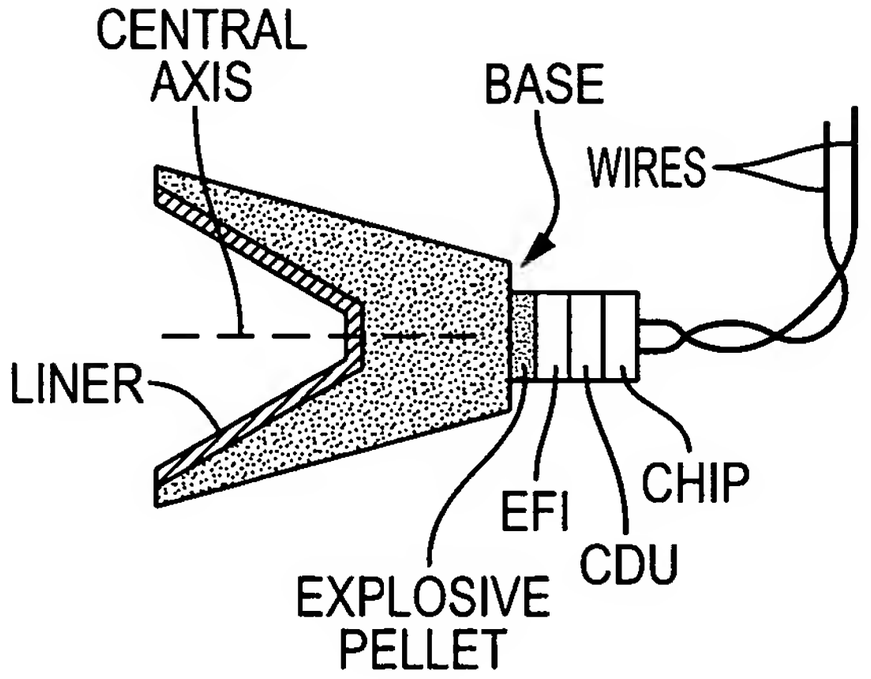



FIG. 14B



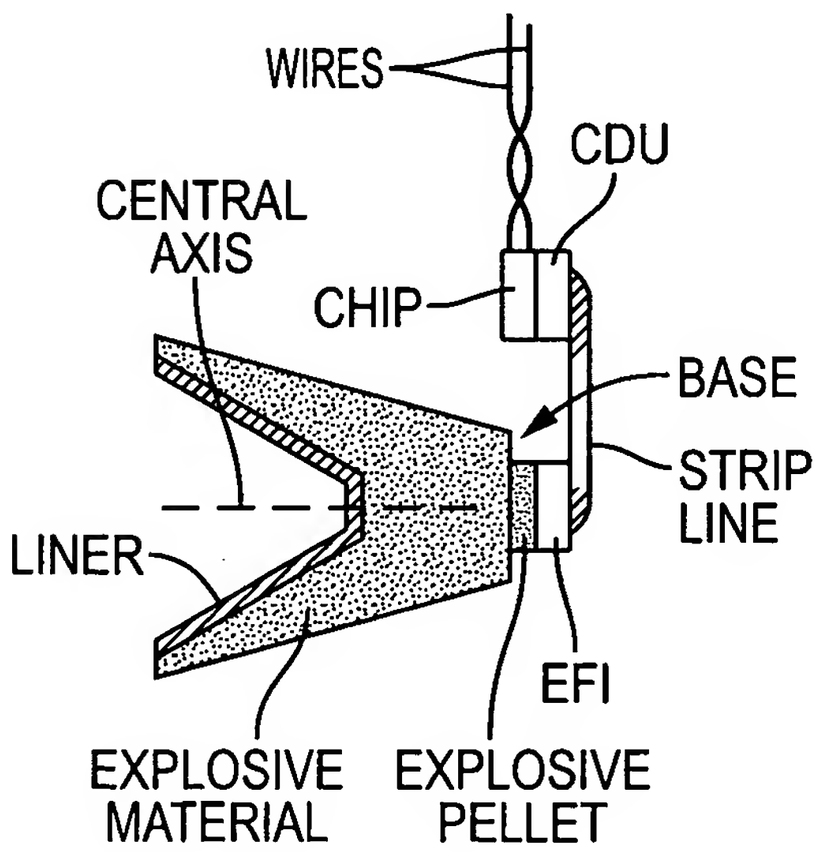


FIG. 14C